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10/072,693	02/06/2002	Petr Hrebejk	SUN-P6327	SUN-P6327 2517		
24209	7590 07/12/2006		EXAM	EXAMINER		
GUNNISON MCKAY & HODGSON, LLP 1900 GARDEN ROAD			HO, A	HO, ANDY		
SUITE 220	EN ROAD	ART UNIT	PAPER NUMBER			
MONTEREY, CA 93940			2194			
			DATE MAILED: 07/12/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	on No.	Applicant(s)			
		10/072,69	93	HREBEJK ET AL.			
	Office Action Summary	Examine		Art Unit			
		Andy Ho		2194			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHOTHE I  - Exter after - If the - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR RIMAILING DATE OF THIS COMMUNICATION Is consistent of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by seply received by the Office later than three months after the red patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event. In. a reply within the stat eriod will apply and w statute, cause the app	ent, however, may a reply be tim utory minimum of thirty (30) days ill expire SIX (6) MONTHS from lication to become ABANDONEI	nely filed s will be considered timel the mailing date of this c (35 U.S.C. § 133).			
Status							
1)🖂	Responsive to communication(s) filed on	03 April 2006.					
2a)⊠	☐ This action is FINAL. 2b)☐ This action is non-final.						
3)							
Dispositi	on of Claims			-			
5)□ 6)⊠ 7)□	4)  Claim(s) 1-6,8-13,15-19,24,26-31,33-38 and 40-42 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) 1-6,8-13,15-19,24,26-31,33-38 and 40-42 is/are rejected.  7)  Claim(s) is/are objected to.						
Applicati	on Papers						
9)☐ The specification is objected to by the Examiner.							
10) 🗌	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	inder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  SUPERVISORY PATENT EXAMINER							
Attachment	(s)		SUPE				
_	e of References Cited (PTO-892)		4) Interview Summary				
2)  Notice 3)  Inforn	e of Draftsperson's Patent Drawing Review (PTO-948 nation Disclosure Statement(s) (PTO-1449 or PTO/SE No(s)/Mail Date		Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te	D-152)		

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#### **DETAILED ACTION**

- 1. This action is in response to the amendment filed 4/3/2006.
- 2. Claims 1-6, 8-13, 15-19, 24, 26-31, 33-38 and 40-42 have been examined and are pending in the application.

## Claim Objections

3. Claims 1, 12-13, 15, 24, 26, 37-38 and 40-42 are objected to because of the following informalities: the word "Ojbect" (new amended limitations of these claims) should be written as "Object". Appropriate corrections are required.

#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-6, 8-13, 15-19, 24, 26-31, 33-38 and 40-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hinson U.S Patent No. 6,829,770 in view of LeBlanc U.S Patent No. 6,694,506 and Admitted Prior Arts (APA).

As to claim 1, Hinson teaches a method for notifying one or more listeners of an event (provides an event class object to distribute information produced by a publisher to one or more subscribers, lines 41-43 column 11) in a object facility repository (142,

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Fig. 7), the event having an event type (to subscribe to a particular outgoing-event interface method..., lines 40-53 column 13; the type of object to be retrieved from the event objects store 140, lines 60-61 column 16), the method including:

creating an event object for the event (event object 102, Fig. 5; event objects within the storage 142, Fig. 7), the event object corresponding to the event sub-type (class of the event objects having methods, lines 8-41 column 12);

performing the event (firing an event, line 50 column 11);

calling a method for each of the listeners (calling a method on interface 110, lines 50-54 column 11) registered for event notification for the event type (registration for events by the subscribers, lines 40-53 column 13) by passing said event object to listeners (sending the events to the subscribers, line 39 column 11 to line 22 column 12) described in an event source interface corresponding to the event type (COM+ Events system interfaces, lines 35-42 column 16), said method for each of the listeners implemented by each listener (... the subscribers 106-108 are COM Objects that have a subscription to a method or methods of the outgoing-event interface 110, which causes the event class object 102 to propagate events fired on the methods to the subscribers. The subscribers 106-108 individually expose outgoing-event interfaces 116 that are defined identically to the event class object's outgoing-event interface 110. The event class object 102 propagates the event by calling the method of the subscribers' outgoing-event interfaces that correspond to the method called by the publisher in the event class object's interface 110. The implementation of the outgoing-event interface

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methods in the subscriber 106-108 includes the subscriber code that processes or acts on the event..., lines 49-61 column 12).

Hinson does not explicitly teach the object facility repository is a meta object facility repository. However, Hinson teaches (lines 50-57 column 7) that the invention can be implemented in combination with other program modules that implement particular abstract data types. Therefore one of ordinary skill in the art would conclude that the particular abstract data type could be metadata defining the structure of data objects and the object facility repository of Hinson could be a meta object facility repository.

Hinson further does not explicitly teach the Meta Object Facility repository is based on a Meta Object Facility Specification. APA teaches (paragraphs 0006-00019 pages 3-8) a system of event notification wherein such system is being implemented within a Meta Object Facility repository based on a Meta Object Facility Specification. It would have been obvious to apply the teachings of APA to the system of Hinson because this allows the system to communicate the changes within the Meta Object Facility repository.

Hinson further does not teach vetoable event notification. LeBlanc teaches (Fig. 4, line 39 column 7 to line 12 column 9) a system of event notification having an event producer and multiple event listeners wherein before an event is occurred; a vetoable condition is being tested. If the vetoable condition is satisfied, the event is not going to occur. If the vetoable condition is not satisfied, the event occurred. It would have been obvious to apply the teachings of LeBlanc to the system of Hinson because by using

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vetoable condition, the system could make appropriate changes as disclosed by LeBlanc (line 59 column 8 to line 12 column 9).

As to claim 2, Hinson as modified further teaches a listener registers for event notification by passing a registration call to a class implemented by the MOF designed to track listener registrations in said event source interface corresponding to the event type (... the COM+ Events system 140 includes services in the form of application programming interface functions that can be called to register, remove or modify subscriptions, as well as to retrieve or enumerate subscriptions to a particular outgoing-event interface method; the subscriber objects 106-108 implement the code that calls the COM+ Events API function for registering a subscription so as to subscribe to a particular outgoing-event interface method..., lines 40-53 column 13).

As to claim 3, Hinson as modified further teaches class implemented by the MOF corresponds only to the event type (to subscribe to a particular outgoing-event interface method..., lines 40-53 column 13).

As to claim 4, Hinson as modified further teaches class implemented by the MOF maintains a record of which listener is registered for notification of which events (stores persistent subscriptions, lines 34-39 column 13).

As to claim 5, Hinson as modified further teaches the event type is a class, instance, or association (class of the event objects having methods, lines 8-41 column 12; to subscribe to a particular outgoing-event interface method..., lines 40-53 column 13).

As to claim 6, Hinson as modified further teaches calling a method for each of the listeners (calling a method on interface 110, lines 50-54 column 11) registered for event notification for the event sub-type (... the subscriptions specify which subscribers to call whenever a call is made to the subscribed event class method. The subscribers also expose an interface matching the event class interface that contains the subscribed method..., lines 25-30 column 4; class of the event objects having methods, lines 8-41 column 12; registration for events by the subscribers, lines 40-53 column 13) by passing the event object to event sub-type listeners (sending the events to the subscribers, line 39 column 11 to line 22 column 12) as indicated by a bitmask in a combination event source interface (... subscription 120 is an object that contains an event class identifier 122 and an event method identifier 124 to specify the events, and a subscriber reference 126 to specify the subscriber 106..., line 67 column 12 to line 3 column 13), the method for each of the listeners registered for event notification implemented by each listener (... the subscribers 106-108 are COM Objects that have a subscription to a method or methods of the outgoing-event interface 110, which causes the event class object 102 to propagate events fired on the methods to the subscribers. The subscribers 106-108 individually expose outgoing-event interfaces 116 that are defined identically to the event class object's outgoing-event interface 110. The event class object 102 propagates the event by calling the method of the subscribers' outgoing-event interfaces that correspond to the method called by the publisher in the event class object's interface 110. The implementation of the outgoing-event interface methods in the subscriber 106-108 includes the subscriber code that processes or acts on the event...,

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lines 49-61 column 12), wherein a listener registers for event notification for an event type by setting a bit corresponding to the event sub-type in a combination event source interface (contains an event class identifier 122 and an event method identifier 124 to specify the events, line 67 column 12 to line 3 column 13).

**As to claim 8**, it is a method claim of claims 2 and 7. Therefore, it is rejected for the same reasons as claims 2 and 7 above.

As to claims 9-11, they are method claims of claims 3-4 and 6, respectively.

Therefore, they are rejected for the same reasons as claims 3-4 and 6 above.

As to claim 12, it is a method claim of claims 1 and 6. Therefore, it is rejected for the same reasons as claims 1 and 6 above. Hinson further teach event types including an instance event (line 58 column 1 to line 10 column 2), a class event (line 18-30 column 4), an associate event and a combination of events (line 58 column 1 to line 10 column 2). LeBlanc further teaches performing the vent comprises making a change (94 and 95, Fig. 4). Note the discussion of claim 1 above for the reason of combining references.

As to claim 13, Hinson teaches a method for registering for event notification of an event (registration for events by the subscribers, lines 40-53 column 13) in an object facility repository (142, Fig. 7), the event having an event type (to subscribe to a particular outgoing-event interface method..., lines 40-53 column 13; the type of object to be retrieved from the event objects store 140, lines 60-61 column 16), the method including:

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implementing a method for event notification corresponding to the event type (method on interface 110, lines 50-54 column 11);

passing a registration call to a class implemented by the MOF designed to track listener registrations in an event source interface corresponding to the event type (... the COM+ Events system 140 includes services in the form of application programming interface functions that can be called to register, remove or modify subscriptions, as well as to retrieve or enumerate subscriptions to a particular outgoing-event interface method; the subscriber objects 106-108 implement the code that calls the COM+ Events API function for registering a subscription so as to subscribe to a particular outgoing-event interface method..., lines 40-53 column 13); event types including an instance event (line 58 column 1 to line 10 column 2), a class event (line 18-30 column 4), an associate event and a combination of events (line 58 column 1 to line 10 column 2).

Hinson does not explicitly teach the object facility repository is a meta object facility repository. However, Hinson teaches (lines 50-57 column 7) that the invention can be implemented in combination with other program modules that implement particular abstract data types. Therefore one of ordinary skill in the art would conclude that the particular abstract data type could be metadata defining the structure of data objects and the object facility repository of Hinson could be a meta object facility repository.

Hinson further does not explicitly teach the Meta Object Facility repository is based on a Meta Object Facility Specification. APA teaches (paragraphs 0006-00019 pages 3-8) a system of event notification wherein such system is being implemented

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within a Meta Object Facility repository based on a Meta Object Facility Specification. It would have been obvious to apply the teachings of APA to the system of Hinson because this allows the system to communicate the changes within the Meta Object Facility repository.

As to claim 15, Hinson teaches an apparatus for notifying one or more listeners of an event (provides an event class object to distribute information produced by a publisher to one or more subscribers, lines 41-43 column 11) in an object facility repository (142, Fig. 7), the event having an event type (to subscribe to a particular outgoing-event interface method..., lines 40-53 column 13; the type of object to be retrieved from the event objects store 140, lines 60-61 column 16) and sub-type (class of the event objects having methods, lines 8-41 column 12), the apparatus including:

an event source interface corresponding to the event type (COM+ Events system interfaces, lines 35-42 column 16); and

a memory storing an event object (event objects within storage 142, Fig. 7), said event object corresponding to the event sub-type (class of the event objects having methods, lines 8-41 column 12), said memory coupled to said event source interface (connection of 140 and 142, Fig. 7).

Hinson does not explicitly teach the object facility repository is a meta object facility repository. However, Hinson teaches (lines 50-57 column 7) that the invention can be implemented in combination with other program modules that implement particular abstract data types. Therefore one of ordinary skill in the art would conclude that the particular abstract data type could be metadata defining the structure of data

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objects and the object facility repository of Hinson could be a meta object facility repository.

Hinson further does not explicitly teach the Meta Object Facility repository is based on a Meta Object Facility Specification. APA teaches (paragraphs 0006-00019 pages 3-8) a system of event notification wherein such system is being implemented within a Meta Object Facility repository based on a Meta Object Facility Specification. It would have been obvious to apply the teachings of APA to the system of Hinson because this allows the system to communicate the changes within the Meta Object Facility repository.

Hinson further does not teach vetoable event notification. LeBlanc teaches (Fig. 4, line 39 column 7 to line 12 column 9) a system of event notification having an event producer and multiple event listeners wherein before an event is occurred; a vetoable condition is being tested. If the vetoable condition is satisfied, the event is not going to occur. If the vetoable condition is not satisfied, the event occurred. It would have been obvious to apply the teachings of LeBlanc to the system of Hinson because by using vetoable condition, the system could make appropriate changes as disclosed by LeBlanc (line 59 column 8 to line 12 column 9).

As to claims 16-19, they are apparatus claims of claims 1, 4, 8, and 3, respectively. Therefore, they are rejected for the same reasons as claims 1, 4, 8, and 3 above.

As to claim 24, it is an apparatus claim of claim 13. Therefore, it is rejected for the same reasons as claim 13 above.

As to claims 26-31 and 33-38, they are apparatus claims of claims 1-6 and 8-13, respectively. Therefore, they are rejected for the same reasons as claims 1-6 and 8-13 above.

As to claims 40-42, they are computer program product claims of claims 1 and 12-13, respectively. Therefore, they are rejected for the same reasons as claims 1 and 12-13 above.

### Response to Arguments

5. Applicant's arguments filed 4/3/2006 have been fully considered but they are not persuasive.

Applicant argued that the cited references do not teach the Meta Object Facility repository is based on a Meta Object Facility Specification (Remarks, third paragraph page 14 to second complete paragraph page 15). In response, the applicant argued a new limitation that was not claimed before. However, this new limitation is still met by a new cited reference, APA, as disclosed in the claim rejections above.

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andy Ho whose telephone number is (571) 272-3762. A voice mail service is also available for this number. The examiner can normally be reached on Monday – Friday, 8:30 am – 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Thomson can be reached on (571) 272-3718.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIM) system. Status information for published applications may be obtained from either Private PAIR or' Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2100.

Any response to this action should be mailed to:

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Commissioner for Patents

P.O Box 1450

Alexandria, VA 22313-1450

### Or fax to:

- AFTER-FINAL faxes must be signed and sent to (571) 273 8300.
- OFFICAL faxes must be signed and sent to (571) 273 8300.
- NON OFFICAL faxes should not be signed, please send to (571) 273 3762

A.H July 7, 2006

> WILLIAM THOMSON WILLIAM THOMSON SUPERVISORY PATENT EXAMINER